

Before entering the aircraft, check surfaces clear of hoar frost, snow, ice and mud

COCKPIT PREPARATIONS

Control Saver	Removed
Fire extinguisher	Check
First aid kit	Check
Magneto/starter switch	OFF, keys out
Battery master/alternator switch	ON
Fuel	Check contents
Annunciator panel	TST
Anti Collision Light	Check
Pitot heater	ON 30 seconds maximum
Stall Warner	Check
Taxi/landing light(s) (if night flying)	Check
Nav lights (if night flying)	Check
Battery master/alternator switch	OFF

External Check for damage, security, fuel and oil

BEFORE STARTING ENGINE

Parking brake	Set
External check	Complete
Passenger briefing	Complete
Cabin door	Closed, locked
Seat and seat belts	Adjusted, secure
Elevator and Aileron	Full, Free and Correct
Flight Instruments	Serviceable
Radio/Electrical	OFF
Cabin Heater/Defrost	OFF
Circuit breakers	IN
Carb Heat	Full and Free Set OFF
Throttle Friction	Released
Mixture	Full and Free Set RICH
Throttle	Full and Free Set ¼ inch open
Flaps	Check extension/retraction, symmetry
Elevator Trimmer	Free movement Set Neutral

STARTING ENGINE

SkyEcho	ON
Battery master/alternator switch	ON
Anti Collision	Remains ON
Fuel	Select lower tank
Fuel Pump	ON, Pressure Stable, then OFF
Primer	If cold 4-6 strokes then Locked
Propeller area	Clear
Magneto/starter switch	BOTH/START

VFR Flight Check List

AFTER ENGINE START

Starter warning light	OUT
Oil pressure	Rising within 30 secs
Throttle	1200 rpm
Alternator	Charging
Annunciator panel lights	OUT
Radio/Nav/Intercom	Set
ATIS	Obtain
Flight instruments	Check, Set QNH
Clearance	Obtain
Transponder	Code Set, GND

INITIAL TAXY

Toe Brakes	Check
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POWER CHECK

Fuel	Change to Fuller Tank
Engine Instruments	Check Green
Throttle	2000 rpm
Carb Heat	ON, check smooth running then OFF
Magnetos	Check Max Drop 175, Diff 50 rpm
Alternator	Charging
Throttle	Check idle 600-800 rpm
Throttle	1200 rpm

PRE-TAKE OFF

Trim	Set
Throttle friction	Tighten
Mixture	RICH
Fuel	Left / Right Contents checked
Fuel Pump	ON
Flaps	0 or 25 deg
Engine Instruments	Check Green
Annunciator panel lights	Out
Flight instruments	Check, QNH set
Seat and seat belts	Secure
Cabin door	Closed, locked
Ailerons and Elevator	Full and Free
Emergency brief	Complete

.....When cleared onto runway.....

ENTERING RUNWAY CHECK

Transponder	ALT
Landing Light	As required
Pitot Heat	If required ON
Rudder	Check full movement
Flight instruments	Check while turning

BOXED ITEMS SHOULD BE CARRIED OUT FROM MEMORY

AFTER TAKE OFF / MISSED APPROACH

Flaps	Retracted
Engine Instruments	Check
Landing light	As required
Fuel Pump	After 1000' agl OFF

IN-FLIGHT CRUISE / REJOIN CHECK

Fuel	Contents and balance
Radio	As required
Engine Instruments,	Carb Heat and Mixture
DI	Check Synchronised
Altimeter	Correct Pressure setting

PRE-LANDING CHECK

Brakes	Check, Off
Mixture	RICH
Fuel	Contents, Balance Select Higher Tank
Fuel Pump	ON
Flaps	As required
Engine Instruments	Green
Landing light	As required
Carb Heat	Check
Seat, seat belts, door	Secure

AFTER LANDING CHECK - When clear of rwy -

Flaps	Retracted
Throttle friction	Loosen
Landing light	As required
Pitot heater	OFF
Fuel Pump	OFF
Carb Heat	Check OFF
Transponder	7000 OFF
Trim	Neutral

CLOSING DOWN – When in apron -

Parking brake	Set
Throttle	1200 rpm
Radios	OFF
Electrical Equipment	OFF
Mixture	Idle Cut Off
Magneto/starter switch	OFF, keys out
Beacon	Leave ON
Battery master/alternator switch	OFF
SkyEcho / Control Saver	OFF / Fitted

VFR Flight Check List

BOXED ITEMS SHOULD BE CARRIED OUT FROM MEMORY

PRE-STALLING CHECK

H Height	Sufficient to recover by 3000ft agl
A Airframe	Configuration as required
S Security	No loose articles, Door, Belts secure
E Engine	Fuel, Mixture RICH Insts Green
L Location	Clear Airfields, Towns, Cloud, Airspace
L Lookout	1x180° or 2x90° and clear of aircraft

ENGINE FIRE (GROUND)

Continue to crank/run engine to suck flames and accumulated fuel into the engine,
If engine starts, run at 1800 rpm for two minutes then shut down and check for damage

If fails to start;

Throttle	OPEN
Mixture	Idle Cut Off
Cranking	CONTINUE
Fuel	OFF
Fuel pump	OFF

Battery master/alternator switch	OFF
Magnetos	OFF
Brakes	Release
Evacuate aircraft as soon as possible	
Fire	EXTINGUISH

ENGINE FIRE (AIR)

Mixture	ICO
Fuel	OFF
Fuel pump	OFF

Cabin heat/air OFF, except overhead vents
Mayday call, **do not attempt restart**
Execute forced landing

ELECTRICAL FIRE (AIR)

Battery master/alternator switch	OFF
Vents/cabin air/heat	CLOSED
Fire extinguisher	Operate as required

Radio/Electrical OFF
Ventilate cabin after using hand fire extinguisher If fire appears extinguished and electrical power required:
Battery master/alternator switch ON
Circuit breakers Check, DO NOT RESET
Radio/electrical switches **One at a time** ON
until fault identified

CABIN FIRE

Master Switch	OFF
Vents, cabin air & heat	CLOSED
Fire extinguisher	Activate

Vents, Cabin Air Open when fire extinguished
Land as soon as possible

ENGINE FAILURE IN FLIGHT

Carb Heat	ON
Glide	73 kts and Trim
Select field plan descent,	Check Failure
Fuel	Check contents L/R
Fuel pump	ON
Mixture	RICH

Magnetos BOTH/START if propeller stopped
Mayday call then CRASH / EFATO CHECKS

CRASH / Engine Fail After Take Off CHECKS

Throttle	Closed
Mixture	ICO
Fuel	OFF
Magnetos	OFF
Door	Unlatch
Seat and Belts	Secure, Backs Upright
Mayday call	
Battery master/alternator switch	OFF

LOW VOLTAGE ANNUNCIATOR (ALT) ON

Ammeter Check to verify if alternator inoperative
If ammeter shows no charge:

Radios	OFF
Alternator circuit breaker	Check and reset once
Battery master/alt	OFF (both sides)
Battery master/alt switch	ON
Low voltage annunciator (ALT)	Check OFF
Radio	ON

If Low voltage annunciator (ALT) illuminates again:

Alternator switch	OFF
Reduce electrical loads to minimum	
Battery only source of electrical power, land as soon as practical	

AMMETER SHOWS EXCESSIVE RATE CHARGE

Alternator switch OFF
Reduce electrical loads to minimum
Battery only source of electrical power, land as soon as practical

STATIC SOURCE BLOCKAGE (UNRELIABLE AIRSPEED)

Alternate static pressure source valve ON
Airspeed Monitor

RECOMMENDED SPEEDS POWER SETTINGS

TAKE-OFF

Normal	VR 65 kts	Full power	Clean
Soft field	VR 55 kts	Full power	Flap 25°
Normal climb	75-85 kts	Full power	Clean
Best rate of climb	79 kts	Full power	Clean
Best angle climb	63 kts	Full power	Clean

APPROACH

Normal	65-75 kts	As required	Flap 40°
Flapless	70-80 kts	As required	Clean
Glide	73 kts	Idle	Clean
Short Field	63 kts	As required	Flap 40°
Demonstrated crosswind ability			17kts
Fuel 94 litres each tank, Tabs 68 litres			
Total usable 182 litres			